# **EAST Search History**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	999	(546/118,514/303).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/09/21 06:40
L2	176	l1 and aminopyridine	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/09/21 06:40
L3	1	I2 and inflammator	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR .	OFF	2007/09/21 06:41
L4	40	I2 and n-oxide	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/09/21 06:41

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TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS
         JUL 02
                 LMEDLINE coverage updated
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      3
         JUL 02
                 SCISEARCH enhanced with complete author names
NEWS
         JUL 02
                 CHEMCATS accession numbers revised
         JUL 02
NEWS
      5
                 CA/CAplus enhanced with utility model patents from China
NEWS
     6
         JUL 16
                 CAplus enhanced with French and German abstracts
NEWS
      7
         JUL 18
                 CA/CAplus patent coverage enhanced
NEWS
     8
         JUL 26
                 USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS
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         JUL 30
                 USGENE now available on STN
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         AUG 06
                 CAS REGISTRY enhanced with new experimental property tags
NEWS 11
         AUG 06
                 BEILSTEIN updated with new compounds
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         AUG 06
                 FSTA enhanced with new thesaurus edition
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         AUG 13
                 CA/CAplus enhanced with additional kind codes for granted
                 patents
         AUG 20
NEWS 14
                 CA/CAplus enhanced with CAS indexing in pre-1907 records
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                 patent family display formats from INPADOCDB
NEWS 16
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                 USPATOLD now available on STN
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         AUG 28
                 CAS REGISTRY enhanced with additional experimental
                 spectral property data
NEWS 18
         SEP 07
                 STN AnaVist, Version 2.0, now available with Derwent
                 World Patents Index
NEWS 19
         SEP 13
                 FORIS renamed to SOFIS
NEWS 20
         SEP 13
                 INPADOCDB enhanced with monthly SDI frequency
NEWS 21
         SEP 17
                 CA/CAplus enhanced with printed CA page images from
                 1967-1998
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         SEP 17
                 CAplus coverage extended to include traditional medicine
                 patents
NEWS EXPRESS
              19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2,
              CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
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SINCE FILE ENTRY

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SESSION 0.42

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

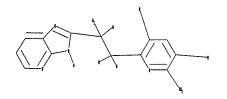
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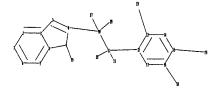
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chain nodes :
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ring nodes :
1 2 3 4 5 6 7 8
                     9 12 13 14 15 16 17
chain bonds :
8-10 9-19 10-11 10-20 10-27 11-12 11-21 11-22 13-23 15-24 16-18
ring bonds :
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16-17
exact/norm bonds :
3-7 4-9 7-8 8-9 10-27 16-18
exact bonds :
8-10 9-19 10-11 10-20 11-12 11-21 11-22 13-23 15-24
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-17 13-14 14-15 15-16 16-17
isolated ring systems :
containing 1 : 12 :
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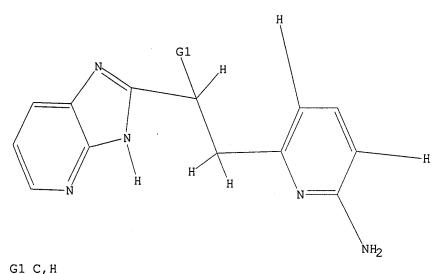
## G1:C,H

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 27:CLASS

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L1 HAS NO ANSWERS

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Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SEARCH INITIATED 06:37:10 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 8 TO ITERATE

100.0% PROCESSED

8 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:

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PROJECTED ITERATIONS:

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FULL SEARCH INITIATED 06:37:14 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED -

167 TO ITERATE

100.0% PROCESSED

167 ITERATIONS

27 ANSWERS

SEARCH TIME: 00.00.01

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SINCE FILE

TOTAL

ENTRY 172.10

SESSION 172.52

FULL ESTIMATED COST

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L42 L3

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ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

2006:43156 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

144:163527

TITLE:

The novel imidazopyridine 2-[2-(4-Methoxy-pyridin-2yl)-ethyl]-3H-imidazo[4,5-b]pyridine (BYK191023) is a

highly selective inhibitor of the inducible

nitric-oxide synthase

AUTHOR(S):

Strub, Andreas; Ulrich, Wolf-Ruediger; Hesslinger, Christian; Eltze, Manfrid; Fuchss, Thomas; Strassner, Jochen; Strand, Susanne; Lehner, Martin D.; Boer,

Rainer

CORPORATE SOURCE:

Departments of Biochemistry, Chemistry and

Pharmacology, ALTANA Pharma AG, Konstanz, Germany Molecular Pharmacology (2006), 69(1), 328-337

SOURCE:

CODEN: MOPMA3; ISSN: 0026-895X

PUBLISHER:

American Society for Pharmacology and Experimental

Therapeutics

DOCUMENT TYPE:

Journal LANGUAGE: English

We have identified imidazopyridine derivs. as a novel class of NO synthase inhibitors with high selectivity for the inducible isoform. 2-[2-(4-Methoxy-pyridin-2-yl)-ethyl]-3H-imidazo[4,5-b]pyridine (BYK191023)showed half-maximal inhibition of crudely purified human inducible (iNOS), neuronal (nNOS), and endothelial (eNOS) NO synthases at 86 nM, 17  $\mu$ M, and 162  $\mu\text{M}$ , resp. Inhibition of inducible NO synthase was competitive with L-arginine, pointing to an interaction of BYK191023 with the catalytic center of the enzyme. In radioligand and surface plasmon resonance expts., BYK191023 exhibited an affinity for iNOS, nNOS, and eNOS of 450 nM, 30  $\mu$ M, and >500  $\mu$ M, resp. Inhibition of cellular nitrate/nitrite synthesis in RAW, rat mesangium, and human embryonic kidney 293 cells after iNOS induction showed 40- to 100-fold higher IC50 values than at the isolated enzyme, in agreement with the much higher L-arginine concns. in cell culture media and inside intact cells. BYK191023 did not show any toxicity in various rodent and human cell lines up to high micromolar concns. The inhibitory potency of BYK191023 was tested in isolated organ models of iNOS (lipopolysaccharide-treated and phenylephrine-precontracted rat aorta;  $IC50 = 7 \mu M$ ), eNOS (arecaidine propargyl ester-induced relaxation of phenylephrine-precontracted rat aorta; IC50 > 100  $\mu$ M), and nNOS (field-stimulated relaxation of phenylephrine-precontracted rabbit corpus cavernosum; IC50 > 100 µM). These data confirm the high selectivity of BYK191023 for iNOS over eNOS and nNOS found at isolated enzymes. In summary, we have identified a new

highly selective iNOS inhibitor structurally unrelated to known compds. and L-arginine. BYK191023 is a valuable tool for the investigation of iNOS-mediated effects in vitro and in vivo.

IT 857379-46-5, BYK 237007

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(structure activity relationship studied of imidazopyridine compds. as selective inhibitors of nitric-oxide synthase isoforms)

RN 857379-46-5 CAPLUS

CN 2-Pyridinamine, 6-[2-(1H-imidazo[4,5-b]pyridin-2-yl)ethyl]-4-methyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:588961 CAPLUS

DOCUMENT NUMBER: 143:115536

TITLE: A preparation of (aminopyridinylethyl)imidazolopyridin

e derivatives, useful as inductible NO-synthase

inhibitors

INVENTOR(S):
Boer, Rainer; Marx, Degenhard; Ulrich, Wolf-Ruediger;

Eltze, Manfrid; Nave, Ruediger; Strub, Andreas;

Graedler, Ulrich; Fuchss, Thomas

PATENT ASSIGNEE(S): Altana Pharma A.-G., Germany

SOURCE: PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.					KIND DATE		APPLICATION NO.				DATE								
WO	0 2005061496			A1 20050707			WO 2004-EP52373				20040930								
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	AZ,	BA,	BB,	, BG,	BR,	BW,	BY,	BZ,	CA,	CH,		
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		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	, JP,	KE,	KG,	ΚP,	KR,	KΖ,	LC,	•	
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	J 2004303515							AU 2004-303515											
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	IX 2006PA03345								MX 2006-PA3345										
US	2007	0430	72		A1		2007	0222		US 2	2006-	5732	04		21	0060	324		

NO 2006-1789 20060424 NO 2006001789 · А 20060424 20060424 IN 2006MN00476 Α 20070427 IN 2006-MN476 EP 2003-22040 20031001 PRIORITY APPLN. INFO.: Α 20040930 WO 2004-EP52373 W

OTHER SOURCE(S):

MARPAT 143:115536

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The invention relates to a preparation of (aminopyridinylethyl)imidazolopyridin e derivs. of formula I [wherein: R1 is H or alkyl; R2 is H, halogen, NH2, (cyclo)alkyl, or CF3, etc.; R3 is H, halogen, alkyl, or alkoxyl R4 is alkyl or alkoxy], useful as antiinflammatory agents (inductible NO-synthase inhibitors). For instance, (aminopyridinylethyl)imidazolopyri dine derivative II was prepared via condensation of 4-methyl-2- (tritylamino)picolinaldehyde with [3H-imidazo[4,5-b]pyridin-2- ylmethyl]triphenylphosphonium chloride and subsequent reduction of the obtained intermediate. The invention compds. were tested for NO-synthase activity [-logIC50(mol/L) values range from 6.58 to 8.15].

IT 857379-53-4P 857379-56-7P

857379-53-4P 857379-56-7P RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of (aminopyridinylethyl)imidazolopyridine derivs. useful as inductible NO-synthase inhibitors)

RN 857379-53-4 CAPLUS

CN 2-Pyridinamine, 6-[2-(6-bromo-1H-imidazo[4,5-b]pyridin-2-yl)ethyl]-4-methyl- (9CI) (CA INDEX NAME)

RN 857379-56-7 CAPLUS

CN 2-Pyridinamine, 4-methyl-6-[2-(6-phenyl-1H-imidazo[4,5-b]pyridin-2-yl)ethyl]- (9CI) (CA INDEX NAME)

IT 857379-46-5P 857379-49-8P 857379-50-1P 857379-51-2P 857379-57-8P 857379-58-9P 857379-61-4P 857379-63-6P 857379-65-8P 857379-66-9P 857379-68-1P 857379-69-2P 857379-71-6P 857379-72-7P 857379-73-8P 857379-74-9P 857379-75-0P 857379-76-1P 857379-77-2P 857379-78-3P 857379-79-4P 857379-81-8P 857380-22-4P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (preparation of (aminopyridinylethyl)imidazolopyridine derivs. useful as inductible NO-synthase inhibitors) RN 857379-46-5 CAPLUS 2-Pyridinamine, 6-[2-(1H-imidazo[4,5-b]pyridin-2-yl)ethyl]-4-methyl- (9CI) CN

(CA INDEX NAME)

RN 857379-49-8 CAPLUS
CN 2-Pyridinamine, 6-[2-(1H-imidazo[4,5-b]pyridin-2-yl)ethyl]-4-methyl-, hydrochloride (9CI) (CA INDEX NAME)

#### •x HCl

RN 857379-50-1 CAPLUS
CN 2-Pyridinamine, 6-[2-(1H-imidazo[4,5-b]pyridin-2-yl)ethyl]-4-methyl-, acetate (9CI) (CA INDEX NAME)

CRN 857379-46-5 CMF C14 H15 N5

1

CM

CM 2

CRN 64-19-7 CMF C2 H4 O2

RN 857379-51-2 CAPLUS

CN 2-Pyridinamine, 6-[2-(1H-imidazo[4,5-b]pyridin-2-yl)propyl]-4-methyl-(9CI) (CA INDEX NAME)

$$\begin{array}{c|c} N & Me \\ \hline N & CH-CH_2 \\ \hline N & NH \end{array}$$

RN 857379-57-8 CAPLUS

CN Benzonitrile, 4-[2-[2-(6-amino-4-methyl-2-pyridinyl)ethyl]-1H-imidazo[4,5-b]pyridin-6-yl]- (9CI) (CA INDEX NAME)

RN 857379-58-9 CAPLUS

CN 2-Pyridinamine, 4-methyl-6-[2-[6-(4-methylphenyl)-1H-imidazo[4,5-b]pyridin-2-yl]ethyl]- (9CI) (CA INDEX NAME)

RN 857379-61-4 CAPLUS

CN 2-Pyridinamine, 6-[2-[6-(4-fluorophenyl)-1H-imidazo[4,5-b]pyridin-2-yl]ethyl]-4-methyl- (9CI) (CA INDEX NAME)

RN 857379-63-6 CAPLUS

CN 2-Pyridinamine, 6-[2-[6-[4-(dimethylamino)phenyl]-1H-imidazo[4,5-b]pyridin-2-yl]ethyl]-4-methyl- (9CI) (CA INDEX NAME)

RN 857379-65-8 CAPLUS

CN 2-Pyridinamine, 6-[2-[6-[4-(dimethylamino)phenyl]-1H-imidazo[4,5-b]pyridin-2-yl]ethyl]-4-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

### HCl

RN 857379-66-9 CAPLUS

CN 2-Pyridinamine, 6-[2-[6-(4-chlorophenyl)-1H-imidazo[4,5-b]pyridin-2-yl]ethyl]-4-methyl- (9CI) (CA INDEX NAME)

RN 857379-68-1 CAPLUS

CN 2-Pyridinamine, 6-[2-[6-(4-chlorophenyl)-1H-imidazo[4,5-b]pyridin-2-yl]ethyl]-4-methyl-, hydrochloride (9CI) (CA INDEX NAME)

#### ●x HCl

RN 857379-69-2 CAPLUS

CN 2-Pyridinamine, 6-[2-[6-(4-iodophenyl)-1H-imidazo[4,5-b]pyridin-2-yl]ethyl]-4-methyl- (9CI) (CA INDEX NAME)

RN 857379-71-6 CAPLUS

CN 2-Pyridinamine, 4-methyl-6-[2-[6-[4-(trifluoromethyl)phenyl]-1H-imidazo[4,5-b]pyridin-2-yl]ethyl]- (9CI) (CA INDEX NAME)

RN 857379-72-7 CAPLUS

CN 2-Pyridinamine, 4-methyl-6-[2-[6-[3-(phenylmethoxy)phenyl]-1H-imidazo[4,5-b]pyridin-2-yl]ethyl]- (9CI) (CA INDEX NAME)

RN 857379-73-8 CAPLUS

CN 2-Pyridinamine, 6-[2-[6-(3,5-dichlorophenyl)-1H-imidazo[4,5-b]pyridin-2-yl]ethyl]-4-methyl- (9CI) (CA INDEX NAME)

RN 857379-74-9 CAPLUS

CN 2-Pyridinamine, 4-methyl-6-[2-[6-[4-(phenylmethoxy)phenyl]-1H-imidazo[4,5-b]pyridin-2-yl]ethyl]- (9CI) (CA INDEX NAME)

RN 857379-75-0 CAPLUS

CN Phenol, 3-[2-[2-(6-amino-4-methyl-2-pyridinyl)ethyl]-1H-imidazo[4,5-b]pyridin-6-yl]- (9CI) (CA INDEX NAME)

HO NH 
$$CH_2-CH_2$$
  $NH_2$   $NH_2$ 

RN 857379-76-1 CAPLUS

CN Pyrrolidine, 1-[[4-[2-[2-(6-amino-4-methyl-2-pyridinyl)ethyl]-1H-imidazo[4,5-b]pyridin-6-yl]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

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RN 857379-77-2 CAPLUS

CN Piperidine, 1-[[4-[2-[2-(6-amino-4-methyl-2-pyridinyl)ethyl]-1H-imidazo[4,5-b]pyridin-6-yl]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c}
O & & NH2 \\
N & S & & NH2 \\
N & & N & N
\end{array}$$

$$\begin{array}{c|c}
O & & NH2 \\
N & & N & N
\end{array}$$

$$\begin{array}{c|c}
O & & NH2 \\
N & & N
\end{array}$$

$$\begin{array}{c|c}
O & & NH2 \\
N & & N
\end{array}$$

$$\begin{array}{c|c}
O & & NH2 \\
N & & N
\end{array}$$

RN 857379-78-3 CAPLUS

CN Benzenesulfonamide, 4-[2-[2-(6-amino-4-methyl-2-pyridinyl)ethyl]-1H-imidazo[4,5-b]pyridin-6-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c}
N & N \\
N & NH
\end{array}$$

$$CH_2 - CH_2$$

$$NH_2$$

$$NH_2$$

RN 857379-79-4 CAPLUS

CN Piperazine, 1-[[4-[2-[2-(6-amino-4-methyl-2-pyridinyl)ethyl]-1H-imidazo[4,5-b]pyridin-6-yl]phenyl]sulfonyl]-4-methyl- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ N &$$

RN 857379-81-8 CAPLUS

CN 2-Pyridinamine, 6-[2-(1H-imidazo[4,5-b]pyridin-2-yl)ethyl]-4-methoxy-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 857379-80-7 CMF C14 H15 N5 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 857380-22-4 CAPLUS

CN Azetidine, 1-[[4-[2-[2-(6-amino-4-methyl-2-pyridinyl)ethyl]-1H-imidazo[4,5-b]pyridin-6-yl]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

$$O = S$$

$$N = CH_2 - CH_2$$

$$Me$$

IT 857379-60-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of (aminopyridinylethyl)imidazolopyridine derivs. useful as inductible NO-synthase inhibitors)

RN 857379-60-3 CAPLUS

CN 2-Pyridinamine, 4-methyl-6-[2-[6-(4-methylphenyl)-1H-imidazo[4,5-b]pyridin-2-yl]ethyl]-, hydrochloride (9CI) (CA INDEX NAME)

Me 
$$N \rightarrow N \rightarrow N \rightarrow CH_2 \rightarrow CH_2 \rightarrow N \rightarrow NH_2$$

●x HCl

REFERENCE COUNT:

3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L3 27 S L1 FULL

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L4 2 S L3 FULL

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